

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

"SUBMISSION OF REPLACEMENT DRAWINGS"

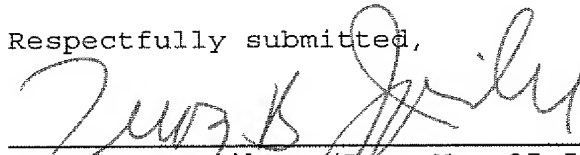
APPLICANTS: Jin H. Kim et al GROUP ART UNIT: 2611
SERIAL NO.: 10/729,722 EXAMINER: Emmanuel Bayard
FILING DATE: December 5, 2003 CONFIRMATION NO.: 2630
INVENTION: EFFICIENT CONJUGATE GRADIENT BASED CHANNEL
ESTIMATOR

Commissioner for Patents
P.O. Box 1450
Washington D.C. 20231

SIR:

Enclosed herewith are two (2) sheets of replacement drawings
for the above-identified application. Acceptance of these drawings
is hereby requested.

Respectfully submitted,



Trevor B. Joike (Reg. No. 25,542)
Schiff Hardin & Waite
Patent Department
6600 Sears Tower
Chicago, Illinois 60606
Telephone: 312-258-5774
ATTORNEY FOR APPLICANT
CUSTOMER NO. 000128